INTERNATIONAL SEARCH REPORT

International application No.

PCT/US04/19042

A. CLASSIFICATION OF SUBJECT MATTER IPC(7) : B63B 21/04 US CL : 114/253			
According to International Patent Classification (IPC) or to both national classification and IPC			
B. FIELDS SEARCHED			
Minimum documentation searched (classification system followed by classification symbols) U.S.: 114/242, 246, 248, 249, 250, 253, 368			
Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched			
Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)			
C. DOCUMENTS CONSIDERED TO BE RELEVANT			
Category *	Citation of document, with indication, where app		Relevant to claim No.
y (US 6,178,914 A (AXELSSON) 30 January 2001 (30.01.2001), see all figures.		26-28, 31, 35-37
A [A US 3,830,186 A (JANSSEN et al) 20 August 1974 (20.08.1974), see figures.		
A t	US 3,448,712 A (LEHMANN et al) 10 June 1969 (10.06.1969), see figures.		
Further documents are listed in the continuation of Box C. See patent family annex.			
* Special categories of cited documents: "A" document defining the general state of the art which is not considered to be of		"T" later document published after the inte date and not in conflict with the appli principle or theory underlying the inv	eation but cited to understand the
particular relevance "X" document of particular relevance; the claimed invention cannot			claimed invention cannot be
1	ication or patent published on or after the international filing date	considered novel or cannot be considered when the document is taken alone	ered to involve an inventive step
"L" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified) "O" document referring to an oral disclosure, use, exhibition or other means		"Y" document of particular relevance; the considered to involve an inventive ste combined with one or more other suc	p when the document is
		being obvious to a person skilled in the art	
"P" document published prior to the international filing date but later than the priority date claimed		document member of the same patent family	
Date of the actual completion of the international search		Date of mailing of the international search report	
23 May 2005 (20 JUN 2005	
	ling address of the ISA/US Stop PCT, Attn: ISA/US	Authorized officer	•
Commissioner for Patents		Lars Olson 1 he to	
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